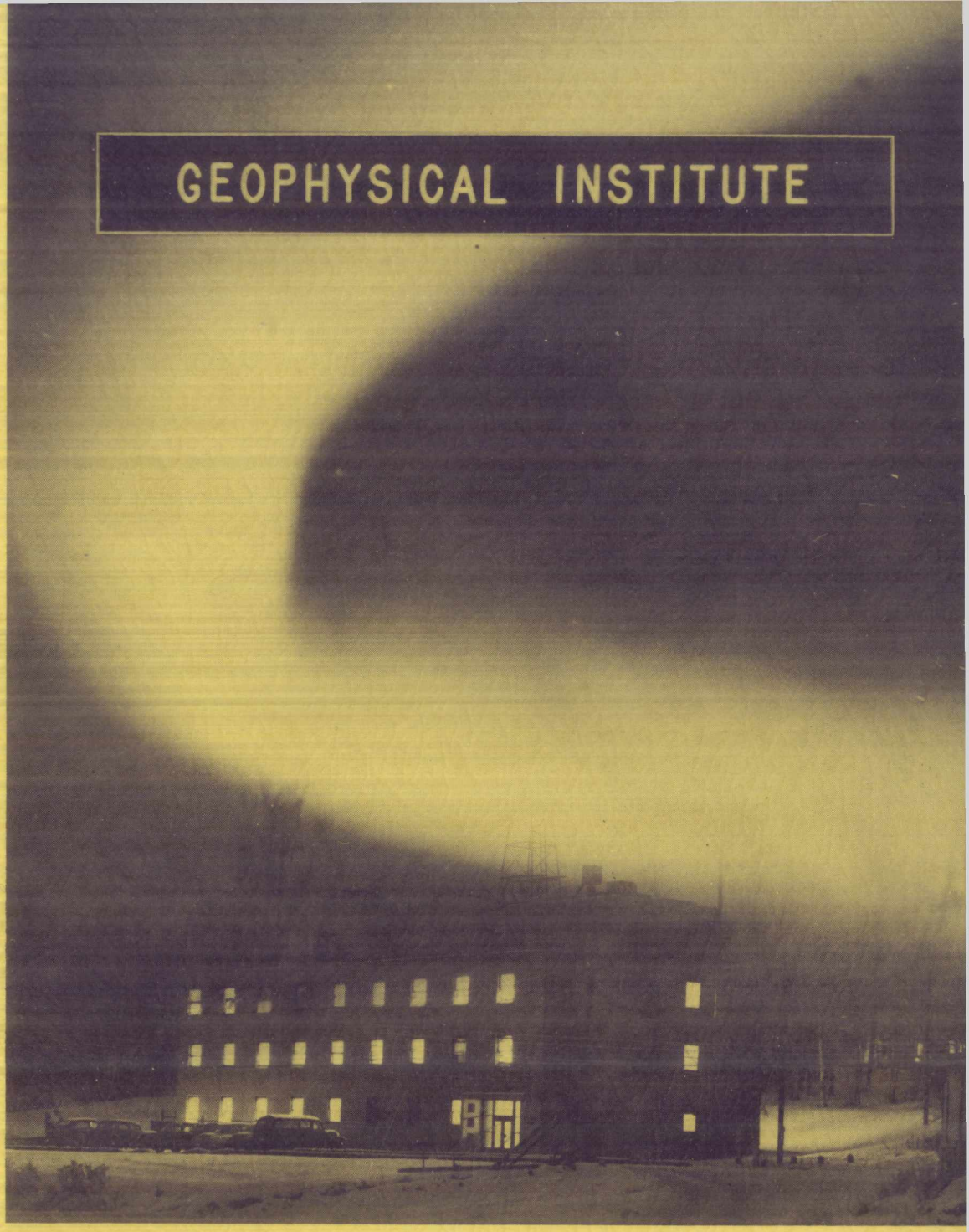

CATALOGUE OF IGY ALL-SKY CAMERA DATA FOR ALASKAN STATIONS

Compiled

by

M. J. Young

Scientific Report Number 3
IGY Project No. 1.14
NSF Grant No. Y/1.14/177

Principal Investigator: C. T. Elvey, Director

GEOPHYSICAL INSTITUTE

of

UNIVERSITY OF ALASKA

Scientific Report No. 3

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INTRODUCTION

The scope of this catalogue is to list and describe every film taken by the Alaskan Stations during the IGY period.

A date coverage in Universal Time is given for each roll and a number assigned for ease in ordering. All films are 16 mm and are 100 feet or less.

Necessary data for inspecting each station's film are also included.

Further description of each roll of film is given so that it is possible to select the most desirable film by any agency concerned at a minimum cost and correspondence. It is hoped that this catalogue will be of aid to anyone desiring All-Sky Camera film.

This report is part of the catalogue for all IGY data to be stored by World Data Center A, Aurora (Instrumental).

IGY WORLD DATA CENTER A

ALL-SKY CAMERA CATALOGUE

Original film held for the following Alaskan Stations

CSAGI NUMBER	STATION CODE	STATION
A039	PB	Point Barrow, Alaska
A068	Be	Bettles, Alaska
A069	Ko	Kotzebue, Alaska
A073	FY	Fort Yukon, Alaska
A092	Co	College, Alaska
A107	He	Healy, Alaska
A118	No	Northway, Alaska
A119	Fa	Farewell, Alaska

IGY WORLD DATA CENTER A

ALL-SKY CAMERA CATALOGUE

Description of Catalogue for Alaskan Stations

DATE U.T.: Coverage of each roll of film in Universal Time

WDC A Number: Number assigned to each roll of film by WDC A

D/A: Number of days aurora visible for each roll of film

Q: Quality of original film data

0 = film bad, data not usable

1 = film poor, data doubtful

2 = film fair, data usable

3 = film good, data usable

I/A: Over-all estimated average relative intensity of aurora

F = faint

M = medium

S = strong

TO ORDER ALASKAN STATIONS FILM, PLEASE USE WDC A NUMBER AND STATION NAME

ALL-SKY CAMERA

A039 POINT BARROW, ALASKA USA

Location:	Geographic Latitude	71° 31' N
	Geographic Longitude	156° 20' W
	Geomagnetic Latitude	68.50° N
	Geomagnetic Longitude	241.25° E
	Magnetic Dip	80.5°
	Geomagnetic Declination	33.0° E
	Magnetic Declination	25.6° E

Sponsoring Country: USA

Type of Camera: USA Photomechanisms

Number of exposures per hour: 80

Length of exposure in seconds: (Noted on operations log)

Type of film: Kodak TXN

Time marking used: Mechanical clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: $\pm$ 1 minute

Orientation of camera: Geomagnetic North

Other details: Arc lights set approximately every 10° of elevation on east-west and north-south arcs. North-south arc lights set November 24, 1957 at approximately 12° and 60°. Each film contains a microfilm copy of the operations log, spliced into the leader. Logs and film are in local time (150° West Meridian Time).

ALL-SKY CAMERA

A039 POINT BARROW, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1957	WDC A Number	D/A	Q	I/A	Remarks
Oct. 1-5	130	0	2	-	Month binaries incorrect
Oct. 6-10	137	0	2	-	Month binaries incorrect
Oct. 11-14	178	2	2	F	Date and month binaries do not show
Oct. 15-18	187	0	2	-	Binaries partially visible
Oct. 19-22	206	3	2	F	Binaries partially visible
Oct. 23-26	220	4	2	S	Out of focus
Oct. 27-30	235	0	2	-	Out of focus, binaries partially visible
Oct. 31-Nov. 3	246	1	2	F	Out of focus, camera malfunctions
Nov. 4-6	257	1	2	F	Out of focus, binaries partially visible
Nov. 7-9	281	1	2	F	Out of focus
Nov. 10-12	282	3	3	M	12 November partly missing
Nov. 13-15	298	3	2	M	Out of focus
Nov. 16-18	301	3	1	S	Out of focus, film fogged
Nov. 19-21	320	3	2	S	Binary light trouble
					No data for this period
Nov. 24-26	328	3	2	M	Binary light trouble
Nov. 27-30	363	4	3	S	
Dec. 1-3	366	3	3	S	
Dec. 4-6	387	2	3	F	
Dec. 7-9	411	2	3	F	

A039 POINT BARROW, ALASKA continued

Date U.T. 1957-58	WDC A Number	D/A	Q	I/A	Remarks
Dec. 10-12	412	2	2	M	Focus fair to good
Dec. 13-15	418	3	2	F	Out of focus
Dec. 16-18	433	3	2	S	Out of focus
Dec. 19-21	464	3	2	S	Out of focus, film fogged
Dec. 22-23	465	3	2	S	Out of focus
					No data for this period
Jan. 10-12	524	3	2	M	Out of focus
Jan. 13-15	532	3	1	S	Out of focus
Jan. 16-18	574	0	0	-	Out of focus
Jan. 19-21	587	0	0	-	Out of focus
Jan. 22-24	592	2	2	S	Out of focus - corrected
Jan. 25-27	601	2	3	M	
Jan. 28-30	610	2	3	M	
Jan. 31-Feb. 2	633	3	3	M	
Feb. 3-5	649	2	3	M	Slight overexposure
Feb. 6-8	659	3	3	S	
Feb. 9-11	660	3	3	S	Red aurora. Last part of Feb. 11 film fogged
Feb. 12-14	666	3	3	S	
Feb. 15-17	713	3	3	M	
Feb. 18-21	721	4	3	S	Last part of Feb. 21 fogged
Feb. 22-25	738	4	3	S	
Feb. 26-Mar. 1	758	3	3	M	
Mar. 2-5	782	1	1	F	Film fogged, dates incorrect
Mar. 6-9	811	4	2	S	Binary dates partly incorrect

A039 POINT BARROW, ALASKA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Mar. 10-13	854	2	3	S	
Mar. 14-18	861	4	3	S	
Mar. 19-23	898	4	2	S	Film slightly fogged
Mar. 24-29	957	6	3	S	
Mar. 30-Apr. 5	976	6	3	M	
Apr. 6-13	1021	5	2	M	Film fogged
CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON					
Sept. 27-Oct. 1	1800	3	3	F	
Oct. 2-6	1834	2	3	F	Mostly cloudy
Oct. 7-10	1835	0	3	-	Cloudy
Oct. 11-14	1842	4	3	F	
Oct. 15-19	1878	3	2	M	Oct. 19 equipment troubles
Oct. 20-23	1909	2	2	M	Equipment troubles
Oct. 24-26	1929	0	3	-	Cloudy
Oct. 27-29	1952	0	3	-	
Oct. 30-Nov. 3	1979	1	2	F	Incorrect date
Nov. 3-5	2007	2	3	M	
Nov. 6-8	2031	2	3	M	
Nov. 9-11	2046	1	3	M	
Nov. 12-14	2054	3	3	M	
Nov. 15-18	2058	1	2	S	Nov. 17 and 18, no data
Nov. 19-21	2081	2	3	M	
Nov. 22-24	2089	2	3	F	
Nov. 25-27	2121	1	2	F	Part of Nov. 27 missing
Nov. 28-Dec. 1	2156	1	2	F	Date and equipment troubles
Dec. 1-4	2199	3	3	F	
Dec. 4-6	2200	3	2	S	Equipment troubles
Dec. 7-10	2183	3	2	M	Equipment troubles
Dec. 10-12	2201	3	3	M	Equipment troubles
Dec. 13-15	2209	3	2	M	Equipment troubles
Dec. 16-19	2213	4	2	S	Equipment troubles
Dec. 19-21	2242	3	3	M	
Dec. 22-24	2301	0	3	-	
Dec. 25-27	2302	0	2	-	
Dec. 28-30	2303	3	3	M	
Dec. 31-Jan. 3	2324	3	3	F	

END OF IGY DATA

ALL-SKY CAMERA

A068 BETTLES, ALASKA

Location:	Geographic Latitude	66° 54' N
	Geographic Longitude	151° 36' W
	Geomagnetic Latitude	65.75° N
	Geomagnetic Longitude	251.04° E
	Magnetic Dip	78.0°
	Geomagnetic Declination	29.3° E
	Magnetic Declination	27.2° E

Sponsoring Country: USA

Type of Camera: USA Photomechanisms

Number of exposures per hour: 60

Length of exposure in seconds: 15

Type of film: Kodak TXN

Time marking used: Electric Numeral clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: Usually $\pm$ 2 minutes

Orientation of camera: Geomagnetic North

Other details: Arc lights set every 10° of elevation on east-west and north south arcs. 30°, 60° on north-south arcs, were set on January 4, 1958. Each film contains a microfilm copy of its operations log spliced in the leader. Log in local time (150° West Meridian Time).

ALL-SKY CAMERA

A068 BETTLES, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1957-58	WDC A Number	D/A	Q	I/A	Remarks
Oct. 12-14	143	2	1	S	Test film, dates confused
Oct. 15-16	158	0	1	-	Test film, clock malfunction
Oct. 17-18	180	0	1	-	Clock malfunction
Oct. 19-22	196	2	1	F	October 19, data not usable
Oct. 23-26	211	4	2	S	Date binaries incorrect
Oct. 27-30	232	3	2	S	Date binaries incorrect
Oct. 31-Nov. 3	243	4	2	M	Date binaries incorrect
Nov. 4-7	262	0	2	-	Date binaries incorrect
Nov. 8-11	274	1	2	F	First day binary incorrect
Nov. 12-15	296	3	2	M	Clock faint
Nov. 16-19	300	4	1	M	Film fogged
Nov. 20-23	313	2	3	M	
					No data for this period
Nov. 30-Dec. 3	368	4	1	M	Clock and binaries not visible
Dec. 4-7	379	2	1	F	Clock and arc lights not visible
Dec. 8-11	389	0	2	-	Some date binaries incorrect
Dec. 12-15	415	3	2	M	Dec. 15 binary date incorrect
Dec. 16-20	439	4	2	S	Date binaries incorrect
Dec. 21-24	450	3	3	S	
Dec. 25-28	454	3	2	S	Date binaries incorrect
Dec. 29-Jan. 1	476	4	2	S	Clock blurred
Jan 2-7	502	3	3	F	Jan. 4 missing
Jan. 8-13	515	3	3	S	

A068 BETTLES, ALASKA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Jan. 14-17	537	4	3	S	
Jan. 18-21	575	4	3	M	
Jan. 22-25	586	4	3	S	
Jan. 26-29	609	4	3	S	
Jan. 30-Feb. 2	623	4	3	F	Cloudy
Feb. 3-7	655	3	3	S	
Feb. 8-12	671	5	3	S	Red aurora, Feb. 11
Feb. 13-17	687	5	3	S	
Feb. 18-22	714	5	3	S	
Feb. 23-27	742	5	3	S	
Feb. 28-Mar. 4	775	3	3	M	
Mar. 5-8	869	3	3	S	
					No data for this period
Mar. 20-25	901	3	3	S	
Mar. 26-Apr. 1	956	7	3	S	
Apr. 2-8	985	7	3	S	
Apr. 9-15	1030	7	3	S	
Apr. 16-24	1100	3	3	F	April 23 missing
Apr. 25-May 1	1202	0	3	-	Last 4 days over-exposed
--CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON--					
Sept. 23-28	1773	4	3	M	
Sept.29-Oct.4	1815	3	2	F	Overexposed
Oct. 5-10	1833	5	2	S	Last clock digit hard to read
Oct. 11-16	1851	0	0	-	Film fogged

A068 BETTLES, ALASKA USA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Oct. 17-22	1910	3	2	M	Oct. 17 reads 18
Oct. 23-28	1934	3	3	S	
Oct. 29-Nov. 3	1988	2	2	F	Occasional double exposures
Nov. 4-9	2010	5	2	M	Occasional double exposures
Nov. 10-14	2056	5	2	S	Occasional double exposures
Nov. 15-19	2072	3	2	S	Occasional double exposures
Nov. 20-23	2083	3	3	M	
Nov. 24-28	2100	0	2	-	Overexposed
Nov. 29-Dec. 2	2125	0	3	-	Cloudy, possible aurora on Nov. 30 and Dec. 1
Dec. 3-6	2144	4	3	S	
Dec. 7-10	2174	4	3	S	
Dec. 11-14	2184	4	2	M	Occasional double exposures
Dec. 15-18	2212	4	2	M	Occasional double exposures
Dec. 19-22	2246	2	2	M	Occasional double exposures
Dec. 23-26	2247	1	2	M	Last digit in clock hard to read
Dec. 27-30	2248	1	2	M	Last digit in clock hard to read
Dec. 31-Jan. 3, 1959	2284	2	3	M	

A069 KOTZEBUE, ALASKA USA

Location:	Geographic Latitude	66° 52' N
	Geographic Longitude	162° 30' W
	Geomagnetic Latitude	63.65° N
	Geomagnetic Longitude	242.04° E
	Magnetic Dip	76.6°
	Geomagnetic Declination	27.4° E
	Magnetic Declination	19.2° E

Sponsoring Country: USA

Type of Camera: USA Photomechanisms

Number of exposures per hour: 60

Length of exposure in seconds: 15

Type of film: Kodak TXN

Time marking used: Electric Numeral Clock

Time (local or UT): Local (165° West Meridian Time)

Time accuracy: Usually $\pm$ 2 minutes (except for frequent power failures; these are indicated in log of film)

Orientation of camera: Geomagnetic North

Other details: Marking lights set approximately every 10° of elevation on east-west and north-south arcs, 30°, 60° on north-south arcs set from 15 December 1957 to 29 January 1958 U.T. Each film contains a microfilm copy of the operations log spliced in the leader. Logs and film are in local time (165° West Meridian Time). Smoke stacks and interfering lights show on this station's film.

ALL-SKY CAMERA

A069 KOTZEBUE, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1957	WDC A Number	D/A	Q	I/A	Remarks
Aug. 29-31	20	1	2	F	Test
Sept. 1-9	36	4	2	F	Camera misaligned, clock troubles
Sept. 10-15	58	2	2	F	Adjustment troubles
Sept. 16-20	59	2	3	F	
Sept. 21-25	75	4	2	S	Film scratched, adjustment troubles
Sept. 26-30	116	3	2	S	Film scratched, adjustment troubles
Oct. 1-6	139	1	3	F	
Oct. 6-12	189	0	2	-	Film spotted, cloudy
Oct. 13-17	197	4	2	M	Film fogged, spotted, emulsion damaged
Oct. 18-22	210	2	2	M	Film scratched, adjustment troubles
Oct. 23-27	223	4	2	M	Film fogged
Oct. 28-Nov. 1	247	4	3	M	
Nov. 1-6	263	1	3	M	
Nov. 7-11	273	1	3	F	
Nov. 12-16	297	4	2	M	Film damaged, clock troubles
Nov. 17-19	303	2	2	F	Camera malfunctions
Nov. 20-24	314	2	2	M	Clock illumination poor
Nov. 24-27	330	4	2	S	Film fogged, clock illumination poor
Nov. 28-Dec. 1	358	2	2	M	Clock illumination poor
Dec. 2-5	371	2	3	F	

A069 KOTZEBUE, ALASKA USA continued

Date U.T. 1957-58	WDC A Number	D/A	Q	I/A	Remarks
Dec. 6-9	391	2	2	F	Mostly cloudy, film partly fogged
Dec. 10-13	419	3	3	F	
Dec. 14-17	427	0	3	-	N.S. arc lights adjusted to 30° and 60° on Dec. 15, 1957
Dec. 18-21	443	4	2	M	Power failures
Dec. 22-25	453	4	2	F	Interfering lights, film partly fogged
Dec. 26-29	477	3	2	F	Fogging and date confusion
Dec. 30-Jan. 2	490	3	2	M	Camera misaligned, smoke interference
Jan. 3-6	503	0	2	-	Bright moon, missing arc lights
Jan. 7-10	517	3	2	M	Power failure, bright arc lights
Jan. 11-14	538	4	2	S	Slight fog, smoke interference
Jan. 14-18	576	4	2	S	Missing frames, interfering lights
Jan. 19-21	602	2	2	M	Some fogged spots
Jan. 22-25	603	4	2	M	Some fogged spots
Jan. 26-29	608	1	2	F	Missing frames
Jan. 30-Feb. 2	669	1	3	F	
Feb. 3-6	670	2	3	F	
Feb. 7-10	685	4	2	S	Slight fog, N.S. arc lights set back to approximately every 10°
Feb. 11-13	686	3	2	S	Red Aurora Feb. 11, clock jammed Feb. 12
Feb. 14-17	701	4	2	S	Clock troubles
Feb. 18-21	724	3	3	S	
Feb. 22-25	740	3	2	M	Film damaged, clock faint, date and time confusion

A069 KOTZEBUE, ALASKA USA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Feb. 26-Mar.1	761	2	2	F	Feb. 26 C time, film slightly fogged
Mar. 2-6	796	0	2	-	Date confusion, cloudy
Mar. 7-11	831	2	1	S	Film damaged, C time, date confusion
Mar. 12-20	862	1	1	S	Film damaged, C time, date confusion
Mar. 21-25	906	5	2	S	Date confusion
Mar. 26-30	953	4	2	F	Binary dates incorrect
Mar. 30-Apr. 4	977	0	2	-	Binary dates incorrect
Apr. 5-9	993	2	1	-	Clock troubles
Apr. 10-14	1007	2	1	M	Overexposed
Apr. 15-17	1031	0	0	-	C Time
Apr. 18-24	1095	3	1	M	Overexposed, daylight and bright moon
Apr. 25-28	1123	0	0	-	Overexposed, too much daylight
Apr. 29-30	1122	0	0	-	Overexposed, too much daylight
--CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON--					
Aug. 28-Sept.4	1680	1	2	F	Some incorrect binary dates
Sept. 5-14	1744	2	3	M	
Sept. 15-22	1756	2	2	F	Clock troubles
Sept. 23-30	1789	3	2	M	Misalignment and clock troubles
Oct. 1-8	1838	4	3	M	
Oct. 10-14	1839	1	2	M	Intermittent power failures
Oct. 15-16	1875	1	1	F	Camera malfunction
Oct. 17-22	1911	3	3	M	
Oct. 23-27	1937	1	3	F	Very small display

A069 KOTZEBUE, ALASKA USA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Oct. 28-30	1992	0	0	-	C time
Oct. 30	1993	0	0	-	C time
Oct. 31-Nov.3	1994	0	3	-	
Nov. 4-7	2008	3	3	M	
Nov. 7-17					No data for this period
Nov. 18-21	2080	2	3	F	
Nov. 22-25	2098	0	3	-	
Nov. 26-29	2106	1	3	F	Very small amount of aurora
Nov. 30-Dec.3	2130	1	3	F	
Dec. 4-7	2154	4	3	M	
Dec. 8-11	2177	4	2	F	Bright light interference
Dec. 12-14	2220	2	3	M	
Dec. 15-16					No data for this period
Dec. 17-20	2251	1	2	F	Camera malfunctions
Dec. 21-26	2252	0	2	-	Cloudy, date confusion
Dec. 27-29	2259	1	3	F	Very small display

STATION CLOSED DECEMBER 29 U.T.

A073 FORT YUKON, ALASKA USA

Location:	Geographic Latitude	66° 34' N
	Geographic Longitude	145° 18' W
	Geomagnetic Latitude	66.69° N
	Geomagnetic Longitude	257.05° E
	Magnetic Dip	78.6°
	Geomagnetic Declination	30.0° E
	Magnetic Declination	31.3° E

Sponsoring Country: USA

Type of Camera: USA Geophysical Institute

Number of exposures per hour: 60

Length of exposure in seconds: 12

Type of film: Kodak TXN

Time marking used: Electric Numeral Clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: Usually $\pm$ 2 minutes

Orientation of camera: Geomagnetic North

Other details: This camera was built at the Geophysical Institute, College, Alaska. It is not of the USA IGY type, however the size and scale of the sky image on the film are the same as that of the IGY cameras. Marking bars set every 10° of elevation on east-west arcs, at 0°, 30°, 60° on north-south arcs. Each film contains a microfilm copy of the operations log, spliced into the leader. Logs and film are in local time (150° West Meridian Time).

ALL-SKY CAMERA

A073 FORT YUKON, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Feb. 8	635	1	1	M	Test
Feb. 9-12	661	4	2	S	Date and time mostly illegible
Feb. 13-16	688	4	2	S	Date and time mostly illegible
Feb. 17-20	700	4	2	S	Date faint, clock stopped on Feb. 20, and some fogging
Feb. 21-24	723	4	2	S	Date very faint
Feb. 25-28	741	4	2	M	Date very faint
Mar. 1-4	776	3	2	M	Date faint
Mar. 5-9	810	4	2	M	Date faint
Mar. 10-15	853	5	2	M	Clock and date light troubles
					No data for this period
Mar. 19-24	895	5	2	S	Clock barely legible
Mar. 25-30	950	4	2	S	Date and clock lights barely legible
Mar. 31-Apr. 6	978	7	2	S	Double exposures
Apr. 7-14	1006	7	3	S	
Apr. 15-23	1094	7	3	S	
Apr. 24-May 1	1145	1	2	F	Too much daylight
CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON					
Oct. 1-5	1810	3	2	M	Date light barely legible
Oct. 6-10	1825	4	3	S	
Oct. 11-15	1841	4	2	F	Date very faint
Oct. 16-20	1876	4	3	M	
Oct. 21-25	1936	4	3	S	

A073 FORT YUKON, ALASKA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Oct. 27-Nov. 1	1986	2	2	M	No operation Nov. 26 and 28
Nov. 2-6	1995	2	2	M	Dates not legible
Nov. 7-12	2032	3	2	M	Dates not legible
Nov. 13-18	2055	2	2	F	Clock sticking throughout film
Nov. 19-24	2090	5	1	M	Clock not operating
Nov. 25-29	2119	0	0	-	Equipment troubles
					No data for this period
Dec. 12-16	2205	3	1	M	Clock not legible, date confusion, etc.
Dec. 17-21	2249	1	1	M	Film badly confused
Dec. 22-29	2250	0	0	-	Mostly C time
Dec. 30-Jan. 3	2300	3	1	F	Film damaged, clock not legible

END OF IGY DATA

A092 COLLEGE, ALASKA

Location:	Geographic Latitude	64° 52' N
	Geographic Longitude	147° 49' W
	Geomagnetic Latitude	64.65° N
	Geomagnetic Longitude	256.56° E
	Magnetic Dip	77.0°
	Geomagnetic Declination	28.0° E
	Magnetic Declination	28.9° E

Sponsoring Country: USA

Type of Camera: USA Photomechanisms

Number of Exposures per hour: 60

Length of exposure in seconds: 15

Type of film: Kodak TXN

Time marking used: Electric Numeral Clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: ± 1 minute

Orientation of camera*: Geomagnetic North

Other details: Marking lights set every 10° of elevation on east-west arcs, at 30°, 60° on north-south arcs. Each film contains a microfilm copy of the operations log, spliced into the leader. Logs and film are in local time (150° West Meridian Time).

*Camera oriented to Geomagnetic North on December 5, 1957. All prior films oriented 15° east of Geomagnetic North.

ALL-SKY CAMERA

A092 COLLEGE, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1957	WDC A Number	D/A	Q	I/A	Remarks
Sept. 17-24	64	1	0	-	Test - equipment troubles
Sept. 25-29	71	1	0	-	Test - equipment troubles
Sept. 30-Oct. 3	79	1	0	-	Equipment troubles
Oct. 4-6	133	2	1	M	Equipment troubles
Oct. 7-9	134	0	1	-	Cloudy, equipment troubles
Oct. 10-13, 21	182	3	1	M	Equipment troubles
Oct. 22-26	207	0	0	-	Equipment troubles
Oct. 27-29	212	3	2	M	Date lights incorrect and misalignment of camera
Oct. 30-Nov. 3	236	0	0	-	Film badly fogged
					No data for this period
Nov. 6-7	245	0	0	-	Test and repairs
Nov. 8-10	253	0	0	-	Test and repairs
Nov. 11-14	272	1	2	F	
Nov. 15-19	295	3	3	F	
Nov. 20-24	311	1	3	M	
Nov. 25-29	319	5	2	S	Incorrect date on Nov. 25, month binary incorrect
Nov. 30-Dec. 4	351	2	2	F	Dec. 4 missing, camera misaligned, film scratched
Dec. 5-8	364	1	3	F	*Camera reoriented to geomagnetic north
Dec. 9-12	388	1	3	F	

*See page 20 for orientation of camera

A092 COLLEGE, ALASKA continued

Date U.T. 1957-58	WDC A Number	D/A	Q	I/A	Remarks
Dec. 13-16	402	2	2	M	Camera malfunction, arc lights overly bright
Dec. 17-20	425	4	2	S	Month binaries not complete
Dec. 21-24	437	4	2	M	Overdeveloped, month binaries not complete, arc lights overly bright
Dec. 25-28	448	2	2	S	Partly fogged, clock faint
Dec. 29-Jan. 1	463	3	2	M	Month binaries incorrect
Jan. 2-5	472	0	2	-	Clock skipping, bright moon and cloudy
Jan. 6-10	499	1	2	F	Month binaries incorrect, dates incorrect
Jan. 11-16	526	4	2	S	Missing frames, month binaries incorrect
Jan. 17-21	542	4	2	M	
Jan. 22-24	565	3	2	S	Missing frames, month binaries incorrect
Jan. 25-29	588	5	2	S	Slightly fogged
Jan. 30-Feb. 3	611	0	2	-	Slightly fogged, cloudy
Feb. 4-9	634	5	2	S	Feb. 4-5 dark, bright moon
Feb. 10-15	664	5	3	S	Red aurora Feb. 11
Feb. 16-21	698	5	0	S	Film badly damaged
Feb. 22-27	737	5	2	S	Missing frames
Feb. 28-Mar. 6	768	0	0	-	Out of focus
Mar. 7-12	804	4	2	M	Skipping frames
Mar. 13-20	848	8	2	S	Mar. 14 clock not visible
Mar. 21-29	907	7	2	S	Skipping frames
Mar. 30-Apr. 7	968	7	2	S	Skipping frames, double exposures

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Apr. 8-18	1029	5	1	S	Clock not operating Apr. 13,14, 15,16,17 and 18
Apr. 19-27	1089	5	1	S	Clock not operating
--CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON--					
Sept. 3-10	1695	3	2	M	Skipping frames
Sept. 11-18	1739	3	2	M	Double exposures
Sept. 19-27	1783	2	2	F	Date lights incorrect, equipment troubles
Sept. 28-Oct. 3	1798	2	2	M	Double exposures
Oct. 4-9	1818	3	2	M	Double exposures
Oct. 10-16	1837	2	2	S	Double exposures
Oct. 17-22	1877	2	2	S	Double exposures
Oct. 23-29	1928	1	2	M	Double exposures
Oct. 30-Nov. 5	1976	2	2	F	Double exposures
Nov. 6-11	2002	2	2	M	Double exposures
Nov. 12-18	2049	4	2	F	Double exposures
Nov. 18-22	2064	1	2	F	Double exposures
Nov. 23-27	2088	0	2	-	Cloudy
Nov. 28-Dec. 2	2113	1	3	F	
Dec. 3-6	2140	3	2	S	Date light troubles
Dec. 7-10	2152	4	3	M	
Dec. 11-14	2158	4	3	F	
Dec. 15-18	2198	3	3	M	
Dec. 19-22	2210	3	3	F	
Dec. 23-26	2244	0	3	-	Cloudy
Dec. 27-30	2245	0	3	-	Cloudy
Dec. 31-Jan. 3, 1959	2255	1	3	M	

END OF IGY DATA

A107 HEALY, ALASKA USA

Location:	Geographic Latitude	64° 00' N
	Geographic Longitude	149° 00' W
	Geomagnetic Latitude	63.70° N
	Geomagnetic Longitude	256.40° E
	Magnetic Dip	76.2°
	Geomagnetic Declination	27.5° E
	Magnetic Declination	28.0° E

Sponsoring Country: USA

Type of Camera: USA Geophysical Institute

Number of exposures per hour: 60

Length of exposure in seconds: 12

Type of film: Kodak TXN

Time marking used: Electric Numeral Clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: Usually $\pm$ 5 minutes (erratic power frequency and frequent power failures; this is indicated in station log of film).

Orientation of camera: Geomagnetic North

Other details: This camera was built at the Geophysical Institute, College, Alaska. It is not of the USA IGY (Photomechanism) type. However the size and scale of the sky image on the film are the same as that of the USA IGY camera. Marking bars are set at every 10° of elevation on the east-west arcs, and at 0°, 30°, 60° on the north-south arcs. Each film contains a microfilm copy of the operations log, spliced into the leader. Logs and films are in local time (150° West Meridian Time).

ALL-SKY CAMERA

A107 HEALY, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Mar. 21-28	936	6	2	M	Mar. 21 C time, Mar. 22 missing
Mar. 29-Apr. 1	958	4	2	S	Camera and development troubles
Apr. 2-10	1002	8	3	S	
Apr. 11-13	1027	0	0	-	C time
					No data for this period
Nov. 10-14	2051	0	0	-	C time
Nov. 15-18	2074	0	0	-	C time
Nov. 19-23	2082	2	2	F	Underexposed
Nov. 24-28	2150	0	3	-	
Nov. 29-Dec. 2	2151	1	3	F	Very small display
Dec. 4-10	2176	0	0	-	C time

OPERATION DISCONTINUED

---END OF IGY DATA----

A118 NORTHWAY, ALASKA USA

Location:	Geographic Latitude	62° 58' N
	Geographic Longitude	141° 57' W
	Geomagnetic Latitude	64.12° N
	Geomagnetic Longitude	263.80° E
	Magnetic Dip	76.8°
	Geomagnetic Declination	26.8° E
	Magnetic Declination	30.0° E

Sponsoring Country: USA

Type of Camera: USA Geophysical Institute

Number of exposures per hour: 60

Length of exposure in seconds: 12

Type of film: Kodak TXN

Time marking used: Electric numeral Clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: Usually $\pm$ 1 minute

Orientation of camera: Geomagnetic North

Other details: This camera was built at the Geophysical Institute, College, Alaska. It is not of the USA IGY (Photomechanisms) type. However the size and scale of the sky image on the film are the same as that of the USA IGY cameras. Marking bars are set at every 10° of elevation on the east-west arcs, and at 0°, 30°, 60° on the north-south arcs. Each film contains a microfilm copy of the operations log, spliced into leader. Logs and film are in local time (150° West Meridian Time).

ALL-SKY CAMERA

A118 NORTHWAY, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Mar. 6-11	808	3	2	M	Mar. 7 & 8 poor focus
Mar. 12-17	844	5	1	S	Dates doubtful
Mar. 18-24	893	7	2	M	Clock partially visible
Mar. 25-31	949	5	1	S	Date and time not visible
					No data for this period
CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON					
Nov. 3-7	2009	1	3	F	Nov. 8 U.T. missing
Nov. 9-13	2040	3	3	F	
Nov. 14-17	2060	3	3	M	
Nov. 18-23	2091	2	2	S	Nov. 22 dated incorrectly, Nov. 24 U.T. missing
Nov. 25-28	2120	0	0	-	Film fogged or overexposed
Nov. 29-30	2153	0	0	-	Equipment trouble
Dec. 6-14	2208	0	0	-	Equipment trouble
					Camera not operating for the duration of IGY

END OF IGY DATA

A119 FAREWELL, ALASKA

Location:	Geographic Latitude	62° 30' N
	Geographic Longitude	153° 52' W
	Geomagnetic Latitude	61.40° N
	Geomagnetic Longitude	253.42° E
	Magnetic Dip	74.3°
	Geomagnetic Declination	25.6° E
	Magnetic Declination	24.0° E

Sponsoring Country: USA

Type of Camera: USA Photomechanisms

Number of exposures per hour: 60

Length of exposure in seconds: 15

Type of film: Kodak TXN

Time marking used: Electric Numeral Clock

Time (local or UT): Local (150° West Meridian Time)

Time accuracy: $\pm$ 10 minutes (Erratic power frequency and frequent power failures; this is indicated in station log of film)

Orientation of camera: Geomagnetic North

Other details: Marking lights are set at every 10° of elevation on the east-west arcs; at 30°, 60° on the north-south arcs. North-south arc lights set Nov. 25, 1957. Each film contains a microfilm copy of the operations log, spliced into the leader. Logs and film are in local time (150° West Meridian Time).

ALL-SKY CAMERA

A119 FAREWELL, ALASKA USA (Recorded on 16 mm film
(WDC A holds original data

Date U.T. 1957	WDC A Number	D/A	Q	I/A	Remarks
Sept. 11-13	41	0	3	-	Test
Sept. 14-17	47	0	3	-	
Sept. 18-20	65	2	3	F	
Sept. 21-24	67	3	3	S	
Sept. 25-27	85	0	3	-	
Sept. 28-Oct. 1	81	2	2	M	Clock not clearly visible
Oct. 2-4	119	2	3	F	
Oct. 5-8	161	2	3	F	
Oct. 9-11	138	0	3	-	Cloudy
Oct. 12-15	162	3	3	M	
Oct. 16-18	188	2	3	M	
Oct. 19-23	205	3	2	M	Clock slow
Oct. 24-28	233	2	3	F	
Oct. 29-Nov. 2	255	3	2	F	Camera misalignment
Nov. 3-7	256	1	3	F	
Nov. 8-12	280	0	3	-	Partly cloudy with bright moon
Nov. 13-17	304	0	3	-	Cloudy with bright moon
Nov. 18-22	312	4	3	M	
Nov. 23-27	329	4	2	S	Patches of film fogged, N.S. arc lights adjusted Nov. 25
Nov. 28-Dec. 1	361	2	3	S	
Dec. 2-4	362	1	3	F	Aurora through clouds
Dec. 5-8	390	0	3	-	Cloudy
Dec. 9-12	410	2	3	F	Cloudy

A119 FAREWELL, ALASKA continued

Date U.T. 1957-58	WDC A Number	D/A	Q	I/A	Remarks
Dec. 13-16	426	2	3	M	Mostly cloudy
Dec. 17-20	438	4	3	S	
Dec. 21-24	449	4	2	M	Slight fog, film scratched
Dec. 25-28	473	3	3	S	
Dec. 29-Jan. 1	475	2	3	S	
					No data for this period
Jan. 7-10	516	1	2	F	Mostly cloudy
Jan. 11-15	536	4	2	M	Jan. 14 missing, Jan. 15 clock troubles
Jan. 16-19	573	1	1	F	Equipment troubles
Jan. 20-23	572	4	2	S	Clock troubles
Jan. 24-27	596	3	3	M	
Jan. 28-31	614	3	3	M	
Feb. 1-4	626	0	3	-	
Feb. 5-8	662	3	3	S	
Feb. 9-12	668	4	3	S	Red aurora Feb. 11
Feb. 13-16	696	4	3	S	
Feb. 17-20	699	4	2	S	Film slightly damaged in processing
Feb. 21-24	722	4	3	M	
Feb. 25-28	759	4	3	F	
Mar. 1-4	795	1	2	F	Mostly cloudy, date troubles
Mar. 5-8	803	1	2	M	Equipment troubles
Mar. 9-12	818	3	2	M	Last digit of clock sticking
Mar. 13-17	843	4	3	M	

A119 FAREWELL, ALASKA continued

Date U.T. 1958	WDC A Number	D/A	Q	I/A	Remarks
Mar. 18-22	894	2	2	S	Mostly cloudy, equipment troubles
Mar. 23-27	951	4	2	S	Blank and missing frames, equipment troubles
Mar. 28-Apr. 1	994	2	2	M	Clock running fast
Apr. 2-7	995	3	2	S	Clock running fast
Apr. 8-12	1028	0	0	-	Equipment troubles
Apr. 13-18	1070	5	2	S	Equipment troubles
Apr. 19-24	1109	0	0	-	Equipment troubles
Apr. 25-28	1121	3	0	F	Equipment troubles
Apr. 29-30	1257	1	0	S	Equipment troubles
--CAMERA OPERATION DISCONTINUED FOR SUMMER SEASON--					
Sept. 13-16	1765	1	2	M	Sept. 14 C time
Sept. 17-23	1787	1	2	M	Multiple exposures
Sept. 24-30	1788	2	2	M	Equipment troubles
Oct. 1-7	1814	2	2	M	Equipment troubles
Oct. 8-14	1840	1	0	F	Oct. 11 & 12 C time
Oct. 15-20	1879	2	1	F	Equipment troubles
Oct. 21-25	1935	0	0	-	C time
Oct. 26-30	1951	0	0	-	C time
Oct. 31-Nov. 4	1987	0	0	-	C time
Nov. 5-8	2036	0	0	-	C time
Nov. 9-13	2059	0	0	-	C time
Nov. 14-20	2073	0	0	-	C time
Nov. 21-26	2114	0	0	-	C time
Nov. 27-Dec. 2	2155	0	0	-	C time
Dec. 3-8	2175	0	0	-	C time

OPERATION STOPPED

--END OF IGY DATA--